

--configured--.

Wrong
line

N.G.

Page 36, line 13, after "directly" insert

--connected--.

Page 38, line 5, change "the Fig.." to --Fig. 5.--.

Page 40, line 23, change "cause" to --causes--.

Page 42, line 9, change "conFig.d" to

--configured--;

line 17, change "however" to

--, however,--.

Page 56, line 6, change "possible" to --possibly--.

Page 57, line 7, change "Fig.s" to --Figs.--.

Page 62, line 2, change "above mentioned" to

--above-mentioned--.

Page 78, line 13, change "(So" to --(so--.

Page 86, line 14, change "TCP/IP)" to --TCP/IP--.

Page 122, line 5, change "conFig.d" to

--configured--;

line 10, after "possibility" insert --that

the--.

Page 124, line 15, change "with in" to --within

the--.

Page 151, line 16, delete "in the", first occurrence.

Page 172, line 6, change "I" to --in--.

Page 193, line 5, change "[[Printer" to --[Printer--;

line 5, change "101" to --101]--.

Page 206, line 8, change "NetWare" to --NetWare.--;

line 13, change "NetWare" to --NetWare.--.

Page 213, line 24, change "display" to --displays--.

Page 214, line 13, change "No.s" to --Nos.--.

Page 231, line 10, change "(Fig. 43) .This" to
--(Fig. 43). This--.

IN THE CLAIMS:

Please amend Claims 1-56 as follows.

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1. (Amended) A [network device control] displaying
method of managing a plurality of network devices, acquiring
information from a selected network device of the plurality of
network devices, and displaying acquired information of the
selected network devices, said method comprising:

A
[an initial sheet information acquisition and] a
first display step of acquiring and displaying [an initial sheet]
a first information on an initial screen of a device window,
which is a window allocated to [individual network peripheral
devices on a one to one basis for controlling network devices]
the selected network device; and

a [different sheet information acquisition and]
second display step of acquiring and displaying [different types

of sheet] a second information on [a] the device window [when determined that] in a case where a user has requested display of different [type sheet] information related to the selected network device.

2. (Amended) A network device control [unit] apparatus for managing a plurality of network devices, acquiring information from a selected network device of the plurality of network devices, and displaying acquiring information of the selected network device, comprising:

[initial sheet information acquisition and] a first display [means] unit for acquiring and displaying [initial sheet] a first information on an initial screen of a device window, which is a window allocated to [individual network peripheral devices on a one to one basis for controlling network devices] the selected network device; and

[different sheet information acquisition and] a second display [means] unit for acquiring and displaying [different types of sheet] a second information on [a] the device window [when determined that] in a case where a user has requested display of different [type sheet] information related to the selected network device.

3. (Amended) A computer-readable recording medium

[capable of being read by a computer in which programs are stored] storing a program for implementing a managing method of managing a plurality of network devices, an acquiring method of acquiring information from a selected network device of the plurality of network devices, and a displaying method of displaying acquired information, said [programs including] the program comprising:

[initial sheet information acquisition and] program code for a first display step of acquiring and displaying [initial sheet] a first information on an initial screen of a device window, which is a window allocated to [individual network peripheral devices on a one to one basis for controlling network devices] the selected network device; and

program code for a [different sheet acquisition and] second display step of acquiring and displaying [different types of sheet] a second information on [a] the device window [when determined that] in a case where a user has requested display of different [type sheet] information related to the selected network device.

4. (Amended) A network device control method

comprising:

an initial sheet information acquisition and display step of acquiring and displaying initial sheet information on an

initial screen of a device window, which is a window allocated to individual network peripheral devices on a one-to-one basis;

a separate sheet information list making step [to make] of making a list of separate sheet information not consisting of the initial sheet information acquired and displayed in said initial sheet information acquisition and display step;

an acquisition sheet information decision step [to decide the] of deciding a sheet information list to acquire from [the] separate sheet information lists made in said separate sheet information list making step;

a different sheet information acquisition and display step of, when it is determined that an entry has been made by a user requesting display of a different type of sheet information, acquiring and displaying different types of newly requested sheet information on a device window opened [by] in said initial sheet information acquisition and display step[, when determined that an entry was made by a user requesting display of different type sheet information];

an all sheet information acquisition decision step of deciding whether all sheet information [is] has been acquired;

a single sheet information acquisition decision step [to decide] of deciding, when it is found in said all sheet information acquisition decision step that not all information

has been acquired, whether all current acquisition of sheet information [from currently acquired sheet information] has ended [as determined in] based on a result of said acquisition sheet information decision step [when found in said all sheet information acquisition decision step that not all information was acquired];

a sheet information list status change step [to change the] of changing a sheet information list status of previously acquired information when it is decided [by means of] in said single sheet information acquisition decision step that all current acquisition of sheet information has ended; and

a network device information acquisition step of acquiring network device information when it is decided [by means of] in said single sheet information acquisition step[,] that not all current acquisition of sheet information has ended.

5. (Amended) A network device control [unit] apparatus comprising:

an initial sheet information acquisition and display [means] unit for acquiring and displaying initial sheet information on an initial screen of a device window, which is a window allocated to individual network peripheral devices on a one-to-one basis;

a separate sheet information list making [means to

make] unit for making a list of separate sheet information not consisting of the initial sheet information acquired and displayed [in] by said initial sheet information acquisition and display [means] unit;

an acquisition sheet information decision [means to decide the] unit for deciding a sheet information list to acquire from [the] separate sheet information lists made [in] by said separate sheet information list making [means] unit;

a different sheet acquisition and display [means] unit for, when it is determined that an entry has been made by a user requesting display of a different type of sheet information, acquiring and displaying different types of newly requested sheet information on a device window opened by said initial sheet information acquisition and display [means, when determined that an entry was made by the user requesting display of different type sheet information] unit;

an all sheet information acquisition decision [means] unit for deciding whether all sheet information [is] has been acquired;

a single sheet information acquisition decision [means to decide] unit for deciding, when it is found by said all sheet information acquisition decision unit that not all sheet information has been acquired, whether all current acquisition of [all sheet information from the currently acquired] sheet

information has ended [as determined in] based on a result from said acquisition sheet information decision [means] unit[, when found in said all sheet information acquisition decision that not all sheet information is acquired];

a sheet information list status change [means to change the] unit for changing a sheet information list status of previously acquired information when decided by [means of] said single sheet information acquisition decision [means] unit that all current acquisition of sheet information has ended; and

a network device information acquisition [means] unit for acquiring network device information when it is decided by [way of] said single sheet information acquisition [means,] nit that not all current acquisition of sheet information has ended.

6. (Amended) A computer-readable recording medium [capable of being read by a computer in which programs are stored, said programs including] storing a program for implementing a network device control method, the program comprising:

program code for an initial sheet information acquisition and display step of acquiring and displaying initial sheet information on an initial screen of a device window, which is a window allocated to individual network peripheral devices on a one-to-one basis;

program code for a separate sheet information list making step [to make] of making a list of separate sheet information not consisting of the initial sheet information acquired and displayed in said initial sheet information acquisition and display step;

program code for an acquisition sheet information decision step [to decide the] of deciding a sheet information list to acquire from [the] separate sheet information lists made in [said] the separate sheet information list making step;

program code for a different sheet information acquisition and display step of, when it is determined that an entry has been made by a user requesting display of a different type of sheet information, acquiring and displaying different types of newly requested sheet information on a device window opened [by said] in the initial sheet information acquisition and display step[, when determined that an entry was made by the user requesting display of different type sheet information];


program code for an all sheet information acquisition decision step of deciding whether all sheet information [is] has been acquired;

program code for a single sheet information acquisition decision step [to decide] of deciding, when it is found in the all sheet information acquisition decision step that not all information has been acquired, whether acquisition of all

current sheet information [from currently acquired sheet information] has ended [as determined in said] based on a result of the acquisition sheet information decision step [when found in said all sheet information acquisition decision step that not all information is acquired];

program code for a sheet information list status change step [to change the] of changing a sheet information list status of previously acquired information when decided [by means of said] in the single sheet information acquisition decision step that all current acquisition of sheet information has ended; and

program code for a network device information acquisition step of acquiring network device information when it is decided [by means of said] in the single sheet information acquisition step[,] that not all current acquisition of sheet information has ended.

 7. (Amended) A network device control method according to [claim 1 or] claim 4, wherein said initial sheet information acquisition and display step [comprising] comprises:

an initial sheet information specifying step of specifying initial sheet information;

a sheet information list making step [to make a serial] of making a sheet information list from initial sheet

information specified in [said] the initial sheet information specifying step; and

an information acquisition step of requesting, acquiring, and displaying information for the network device based on the sheet information list made in [said] the sheet information list making step.

8. (Amended) A network device control [unit] apparatus according to [claim 2 or] claim 5, wherein said initial sheet information acquisition and display [means comprising] nit comprises:

an initial sheet information specifying [means] unit for specifying initial sheet information;

a sheet information list making [means to make a serial] unit for making a sheet information list from initial sheet information specified [in said] by the initial sheet information specifying [means] unit; and

an information acquisition [means] unit for requesting, acquiring, and displaying information for the network device based on the sheet information list made in [said] the sheet information list making [means] unit.

9. (Amended) A recording medium according to [claim 3 or] claim 6, wherein [said] the initial sheet information

acquisition and display step [comprising] comprises:

an initial sheet information specifying step of specifying initial sheet information;

a sheet information list making step [to make a serial] of making a sheet information list from initial sheet information specified in [said] the initial sheet information specifying step; and

an information acquisition step of requesting, acquiring, and displaying information for the network device based on the sheet information list made in [said] the sheet information list making step.

10. (Amended) A [network device control] method according to claim 7, wherein the user specifies initial sheet information on an initial sheet information screen [as said] in the initial sheet information specifying step.

11. (Amended) A [network device control] method according to claim 7, wherein [said] the initial sheet information specifying step comprises:

a network device status identifier step of [for] determining [the] a status of the network device, and

a status initial sheet set step [to set the] of setting a displayed initial sheet information by way of the

network device status determined in [said] the network device status identifier step.

12. (Amended) A network device control [unit] apparatus according to claim 8, wherein [said] the initial sheet information specifying [means comprises the network device control] unit [specifying] specifies the initial sheet information in a fixed pattern.

13. (Amended) A network device control [unit] apparatus according to claim 8, wherein [said] the initial sheet information specifying [means] unit specifies the initial sheet information by utilizing an initial sheet information identifier to identify initial sheet information held in [the] an initialize file stored in [the storage means] a memory of [said] the network device.

14. (Amended) A network device control [unit] apparatus according to claim 13, wherein [as means], in order to hold sheet information in [said] the initialize file, [the immediately prior used] another network device control [unit of this invention] apparatus, used immediately prior to said network device control apparatus, holds the identifier for the sheet information acquired and displayed most recently[,] in [the] its

initialize file.

15. (Amended) A network device control [unit] apparatus according to claim 8, wherein [as said initial sheet information specifying means,] the user specifies the initial sheet information [when using the network device control unit] to the initial sheet information specifying unit.

16. (Amended) A network device control [unit] apparatus according to claim 8, wherein [said] the initial sheet information specifying [means] unit comprises:

a network device status identifier [means] unit for determining [the] a status of the network device, and

a status initial sheet set [means to set the] unit for setting a displayed initial sheet information by way of the network device status determined [in said] by the network device status identifier [means] unit.

17. (Amended) A recording medium according to claim 9, wherein [said] the initial sheet information specifying step [includes a program of specifying] specifies the initial sheet information in a fixed pattern.

18. (Amended) A recording medium according to claim

9, wherein [said] the initial sheet information specifying step specifies the initial sheet information by utilizing an initial sheet information identifier to identify initial sheet information held in [the] an initialize file stored in said recording medium.

19. (Amended) A recording medium according to claim 18, wherein [as a method], in order to hold sheet information in [said] the initialize file, [the immediately prior used] a network device control [unit of this invention] apparatus used immediately prior to a current network device control apparatus holds the identifier for [the] sheet information acquired and displayed most recently[,] in [the] its initialize file.

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20. (Amended) A recording medium according to claim 9, wherein [said initial sheet information specifying step,] the user specifies initial sheet information on an initial she information screen in the initial sheet information specifying step.

21. (Amended) A recording medium according to claim 9, wherein [said] the initial sheet information specifying [means consists of] step comprises:

a network device status identifier [means] step for

determining [the] a status of the network device, and
a status initial sheet set [means to set the] step
for setting displayed initial sheet information by way of the
network device status determined in [said] the network device
status identifier [means] step.

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22. (Amended) A network device control method
according to [claim 1 or] claim 4, wherein said initial separate
sheet information acquisition and display step [comprising]
comprises:

[an] a separate sheet information specifying step of
specifying separate sheet information;

a sheet information list making step [to make a
serial] of making a sheet information list from separate sheet
information specified in [said] the separate sheet information
specifying step; and

an information acquisition step of requesting,
acquiring, and displaying information [for] of the network device
based on the sheet information list made in [said] the sheet
information list making step.

23. (Amended) A network device control [unit]
apparatus according to [claim 2 or] claim 5, wherein said
[separate] initial sheet information acquisition and display

[means comprising] unit comprises:

a separate sheet information specifying [means] unit
for specifying separate sheet information;

a sheet information list making [means to make a
serial] unit for making a sheet information list from separate
sheet information specified [in said] using the separate sheet
information specifying [means] unit; and

an information acquisition [means] unit for
requesting, acquiring, and displaying information [for] of the
network device based on the sheet information list made [in said]
using the sheet information list making [means] unit.

24. (Amended) A recording medium according to
[claim 3 or] claim 6, wherein [said] the initial sheet
information acquisition and display step [comprising] comprises:

[an] a separate sheet information specifying step of
specifying separate sheet information;

a sheet information list making step [to make a
serial] of making a sheet information list from separate sheet
information specified in [said] the separate sheet information
specifying step; and

an information acquisition step of requesting,
acquiring, and displaying information for the network device
based on the sheet information list made in [said] the sheet

information list making step.

25. (Amended) A network device control method according to claim 7, wherein [said initial sheet] the information acquisition step [comprising] comprises:

a sheet information compulsory acquisition decision step of deciding whether or not to compulsorily acquire sheet information;

an instant display step [to display] of displaying a portion of the information beforehand, based on [the] currently held sheet information, when it is decided not to perform compulsory acquisition in [said] the sheet information compulsory acquisition decision step;

a display all sheet information step [to decide] of deciding whether or not all sheet information was displayed when it is decided to perform compulsory acquisition in [said] the sheet information compulsory acquisition decision step;

a network device information acquisition step of acquiring network device information;

a network device holding decision step [to decide] of deciding whether or not previously acquired network device information (hereafter called "cache") is being held;

a cache comparison step [to compare the] of comparing a cache value with [the] a network device information value newly

acquired [by way of] in said network device information
acquisition step when it is determined to hold information in
cache [by said] in the network device holding decision step;

a cache value hold step [to hold] of holding the
acquired network device information as a cache value when results
of the comparison of the cache value with the newly acquired
network device information value are determined to differ, and
also when it is decided a cache is not being held [by way of
said] in the network device holding decision step;

a network device information display step [to
display] of displaying on [said] the device window, [said] the
cache value held in [said] the cache value hold step;

a sheet list status change step [to change the] of
changing a status of currently displayed information on the sheet
list to a display-completed[-]status in order to decide whether
to display all network device information in [said] the display
all sheet information step;

an update decision step [to decide] of deciding
whether or not to update [the] a display of information on [said]
the device window when it is decided that all network device
information was displayed in the display all sheet information
step;

a timer update set step [to set] of setting an
automatic update timer when [determined] it is decided to perform

updates in the update decision step;

a timer update monitor step [to determine] of determining whether or not [the] time is up[,] on the automatic update timer set in [said] the timer update set step; and

an update stop monitor step [to monitor if] of monitoring whether updating has stopped or not when the time has not run out on the automatic update timer monitored in the timer update monitor step.

26. (Amended) A network device control [unit] apparatus according to claim 8, wherein [said] the information acquisition [means comprising] unit comprises:

a sheet information compulsory acquisition decision [means] unit for deciding whether or not to compulsorily acquire sheet information,

an instant display [means to display] unit for displaying a portion of the information beforehand, based on [the] currently held sheet information, when it is decided not to perform compulsory acquisition [in said] using the sheet information compulsory acquisition decision [means] unit;

a display all sheet information [means to decide] unit for deciding whether or not all sheet information was displayed when it is decided to perform compulsory acquisition [in said] using the sheet information compulsory acquisition

decision [means] unit;

a network device information acquisition [means] unit
for acquiring network device information;

a network device holding decision [means to decide]
unit for deciding whether or not previously acquired network
device information (hereafter called "cache") is being held;

a cache comparison [means to compare the] unit for
comparing a cache value with [the] a network device information
value newly acquired [by way of said] the network device
information acquisition [means] unit when it is determined to
hold information in cache [by said] using the network device
holding decision [means] unit;

a cache value hold [means to hold] unit for holding
the acquire network device value as a cache value when results of
the comparison of the cache value with the newly acquired network
device information value are determined to differ, and also when
it is decided a cache is not being held [by way of said] using
the network device holding decision [means] unit;

a network device information display [means to
display] unit for displaying on [said] the device window[, said]
the cache value held [in said] using the cache value hold [means]
unit;

a sheet list status change [means to change the] unit
for changing a status of currently displayed information on the

sheet list to a display-completed status in order to decide whether to display all network device information [in said] using the display all sheet information [means] unit;

an update decision [means to decide] unit for deciding whether or not to update [the] a display of information on [said] the device window when it is decided that all network device information was displayed [in] using the display all sheet information [means] unit;

a timer update set [means to set] unit for setting an automatic update timer when [determined] it is decided to perform automatic updates [in the] using the update decision [means] unit;

a timer update monitor [means to determine] unit for determining whether or not [the] time is up[,] on the automatic update timer set [in said] using the timer update set [means] unit; and

an update stop monitor [means to monitor if] unit for monitoring whether updating has stopped or not when the time has not run out on the automatic update timer monitored [in] using the timer update monitor [means] unit.

27. (Amended) A recording medium according to claim 9, wherein [said initial] the sheet information acquisition step [comprising] comprises:

a sheet information compulsory acquisition decision step of deciding whether or not to compulsorily acquire sheet information;

an instant display step [to display] of displaying a portion of the information beforehand, based on [the] currently held sheet information, when it is decided not to perform compulsory acquisition in [said] the sheet information compulsory acquisition decision step;

a display all sheet information step [to decide] of deciding whether or not all sheet information was displayed when it is decided to perform compulsory acquisition in [said] the sheet information compulsory acquisition decision step;

a network device information acquisition step of acquiring network device information;

a network device holding decision step [to decide] of deciding whether or not previously acquired network device information (hereafter called "cache") is being held;

a cache comparison step [to compare the] of comparing a cache value with [the] a network device information value newly acquired [by way of said] in the network device acquisition step when [determined] it is decided to hold information in cache [by said] in the network device holding decision step;

a cache value hold step [to hold] of holding the [acquire] acquired network device value as a cache value when

results of the comparison of the cache value with the newly acquired network device information value are determined to differ, and also when it is decided a cache is not being held [by way of said] in the network device holding decision step;

a network device information display step [to display] of displaying on [said] the device window[, said] the cache value held in [said] the cache value hold step;

a sheet list status change step [to change the] of changing a status of currently displayed information on the sheet list to a display-completed status in order to decide whether to display all network device information in [said] the display all sheet information step;

an update decision step [to decide] of deciding whether or not to update [the] a display of information on [said] the device window when it is decided that all network device information was displayed in the display all sheet information step;

a timer update set step [to set] of setting an automatic update timer when [determined] it is decided to perform updates in the automatic update decision step;

a timer update monitor step [to determine] of monitoring whether or not [the] time is up[,] on the automatic update timer set in [said] the timer update set step; and

an update stop monitor step [to monitor if] of

monitoring whether updating has stopped or not when the time has not run out on the automatic update timer monitored in the timer update monitor step.

28. (Amended) A network device control method according to claim 25, wherein [said] the instant display step [comprising] comprises:

a sheet information list decision step of deciding whether [the three steps] each of a cache value enable decision step, a network device information display step, and a sheet information list status change step were implemented on [the] a currently held sheet information list;

a cache value enable decision step [to decide] of deciding whether information in [said] the sheet information list was previously acquired[,] when [determined by utilizing] it is decided in the sheet information list decision step[,] that [said] the cache value enable decision step [and the two steps of], the network device information display step, and the sheet information list status change step were not implemented for the entire sheet information list;

a network device information display step [to display] of displaying a cache value of certain information on [said] the device window when it is determined that the information was previously acquired [by way of said] in the cache

value enable decision step; and

a sheet list status change step [to change the] of changing a status of currently displayed information on the sheet list to a display-completed status.

29. (Amended) A network device control [unit] apparatus according to claim 26, wherein [said] the instant display [means comprising] unit comprises:

a sheet information list decision [means] unit for deciding whether [the three means] each of a cache value enable decision [means] unit, a network device information display [means] unit, and a sheet information list status change [means] unit were implemented on the currently held sheet information list;

a cache value enable decision [means to decide] unit for deciding whether information in [said] the sheet information list was previously acquired[,] when it is determined [by utilizing] using the sheet information list decision [means,] unit that [said] the cache value enable decision [means and the two means of] unit, the network device information display [means] unit, and the sheet information list status change [means] unit were not implemented for the entire sheet information list;

a network device information display [means to

display] unit for displaying a cache value of certain information on [said] the device window when it is determined that the information was previously acquired [by way of said] using the cache value enable decision [means] unit; and

a sheet list status change [means to change the] unit for changing the status of currently displayed information on the sheet list to a display-completed status.

30. (Amended) A recording medium according to claim 27, wherein [said] the instant display step [comprising] comprises:

a sheet information list decision step of deciding whether [the three steps] each of a cache value enable decision step, a network device information display step, and a sheet information list status change step were implemented on [the] a currently held sheet information list;

a cache value enable decision step [to decide] of deciding whether information in [said] the sheet information list was previously acquired[,] when it is determined [by utilizing] in the sheet information list decision step[,] that [said] the cache value enable decision step [and the two steps of], the network device information display step, and the sheet information list status change step were not implemented for the entire sheet information list;

a network device information display step [to display] of displaying a cache value of certain information on [said] the device window when it is determined that the information was previously acquired [by way of said] in the cache value enable decision step; and

a sheet list status change step [to change the] of changing a status of currently displayed information on the sheet list to a display-completed status.

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31. (Amended) A network device control method according to claim 7, wherein [said] the information acquisition step [comprising] comprises:

a display all sheet information decision step [to decide] of deciding whether or not to all sheet information was displayed;

a network device information hold decision step [to decide] of deciding whether [the] a cache is being held when it is determined in [said] the display all sheet information decision step that not all of the information was displayed;

a sheet information compulsory acquisition decision step of deciding whether or not to compulsorily acquire sheet information;

a network device information acquisition step [to acquire] of acquiring information on the network device when it

is determined in [said] the sheet information compulsory acquisition decision step to compulsorily acquire sheet information;

a cache comparison step [to compare the] of comparing a cache value with [the] a device information value newly acquired by [said] the network device information acquisition step;

a cache value hold step [to hold] of holding the acquired network device information as a cache value when results of the comparison of the cache value with the newly acquired device information value are determined to differ, and also when it is determined [by way of said] in the network device information holding decision step[,] that [the] previously acquired network device information is not being held;

a network device information display step of displaying on [said] the network device window[,] the cache value held [by means of said] in the cache value hold step;

a sheet list status change step [to change the] of changing a status of currently displayed information on the sheet list to a display-completed status in order to decide whether to display all network device information in [said] the display all sheet information step;

an update decision step [to decide] of deciding whether or not to update [the] a display of information on [said]

the device window when it is determined that all network device information was displayed in [said] the display all sheet information step;

a timer update set step [to set] of setting an automatic update timer when [determined] it is decided to perform updates in [said] the update decision step;

a timer update monitor step [to determine] of determining whether or not [the] time is up[,] on the automatic update timer set in [said] the timer update set step; and

an update stop monitor step [to monitor if] of monitoring whether updating has stopped or not when the time has not run out on the automatic update timer monitored in the timer update monitor step.

32. (Amended) A network device control [unit] apparatus according to claim 8, wherein [said] the information acquisition [means comprising] unit comprises:

a display all sheet information decision [means to decide] unit for deciding whether or not [to] all sheet information was displayed;

a network device information hold decision [means to decide] unit of deciding whether [the] a cache is being held when it is determined [in said] using the display all sheet information decision [means] unit that not all of the information

was displayed;

a sheet information compulsory acquisition decision [means] unit for deciding whether or not to compulsorily acquire sheet information;

a network device information acquisition [means to acquire] unit for acquiring information on the network device when it is determined [in said] using the sheet information compulsory acquisition decision [means] unit to compulsorily acquire sheet information;

a cache comparison [means to compare the] unit for comparing a cache value with [the] a device information value newly acquired by [said] the network device information acquisition [means] unit;

a cache value hold [means to hold] unit for holding the acquired network device information as a cache value when results of the comparison of the cache value with the newly acquired device information value are determined to differ, and also when [determined by way of said] it is decided using the network device holding decision [means,] unit that [the] previously acquired network device information is not being held;

a network device information display [means] unit for displaying on [said] the network device window[,] the cache value held [by means of said] using the cache value hold [means] unit;

a sheet list status change [means to change the] unit

for changing a status of currently displayed information on the sheet list to a display-completed status in order to decide whether to display all network device information [in said] using the display all sheet information [means] unit;

an update decision [means to decide] unit for deciding whether or not to update [the] a display of information on [said] the device window when it is determined that all network device information was displayed [in said] using the display all sheet information [means] unit;

a timer update set [means to set] unit for setting an automatic update timer when [determined] it is decided to perform updates [in said] using the update decision [means] unit;

a timer update monitor [means to determine] unit for determining whether or not [the] time is up[,] on the automatic update timer set [in said] using the timer update set [means] unit; and

an update stop monitor [means to monitor if] unit for monitoring whether updating has stopped or not when the time has not run out on the automatic update timer monitored [in] using the timer update monitor [means] unit.

33. (Amended) A recording medium according to claim 9, wherein [said] the information acquisition step [comprising] comprises:

a display all sheet information decision step [to decide] of deciding whether or not [to] all sheet information was displayed;

a network device information hold decision step [to decide] of deciding whether [the] a cache is being held when it is determined in [said] the display all sheet information decision step that not all of the information was displayed;

a sheet information compulsory acquisition decision step of deciding whether or not to compulsorily acquire sheet information;

a network device information acquisition step [to acquire] of acquiring information on the network device when it is determined in [said] the sheet information compulsory acquisition decision step to compulsorily acquire sheet information;

a cache comparison step [to compare the] of comparing a cache value with [the] a device information value newly acquired [by said] in the network device information acquisition step;

a cache value hold step [to hold] of holding the acquired network device information as a cache value when results of the comparison of the cache value with the newly acquired device information value are determined to differ, and also when it is determined [by way of said] in the network device holding

decision step[,] that [the] previously acquired network device information is not being held;

a network device information display step of displaying on [said] the network device window[,] the cache value held [by means of said] in the cache value hold step;

a sheet list status change step [to change the] of changing a status of currently displayed information on the sheet list to a display-completed status in order to decide whether to display all network device information in [said] the display all sheet information step;

an update decision step [to decide] of deciding whether or not to update [the] a display of information on [said] the device window when it is determined that all network device information was displayed in [said] the display all sheet information step;

a timer update set step [to set] of setting an automatic update timer when it is decided to perform updates in [said] the update decision step;

a timer update monitor step [to determine] of determining whether or not [the] time is up[,] on the automatic update timer set in [said] the timer update set step; and

an update stop monitor step [to monitor if] of monitoring whether updating has stopped or not when the time has not run out on the automatic update timer monitored in the timer

update monitor step.

34. (Amended) A network device control method utilizing a SNMP protocol, said method comprising:
a discrimination step [to discriminate] of discriminating between MIB data requiring a write request and MIB data not requiring a write request for [the] a SNMP agent of the network device, the discrimination being from among [the] MIB data matching [the] information that was write-specified by a user.

35. (Amended) A network device control method comprising:
a storage step [to store] of storing MIB data obtained from an MIB data read-out process into [an] a MIB data cache; and

a comparison step [to compare] of comparing the MIB data stored in the MIB data cache in [above] said storage step with MIB data matching information write-specified by [the] a user in [an] a MIB data write process.

36. (Amended) A network device control method comprising:

a storage step [to store] of storing MIB data

obtained from [an] a MIB data write process into [an] a MIB data cache; and

a comparison step [to compare] of comparing the MIB data stored in the MIB data cache in [above] said storage step with MIB data matching information write-specified by [the] a user in [an] a MIB data write process.

37. (Amended) A network device control method comprising:

a first storage step [to store] of storing MIB data obtained from [an] a MIB data read-out process into [an] a MIB data cache;

a second storage step [to store] of storing MIB data written in [an] a MIB write process into [an] a MIB data cache; and

a comparison step [to compare] of comparing the MIB data stored in the MIB data cache in either of [above] said first and second storage steps[,] with MIB data matching information write-specified by [the] a user in [an] a MIB data write process.

38. (Amended) A network device control [unit] apparatus utilizing a SNMP protocol, said apparatus comprising:

[means] a discrimination circuit arranged to discriminate between MIB data requiring a write request and MIB

data not requiring a write request for [the] a SNMP agent of the network device, said discrimination circuit discriminating from among [the] MIB data matching [the] information that was write-specified by a user.

39. (Amended) A network device control [unit] apparatus comprising:

[means] a memory unit arranged to store MIB data obtained from [an] a MIB data read-out process into [an] a MIB data cache; and

a [means] comparison circuit arranged to compare data stored in the MIB data cache in [above means] said memory unit with MIB data matching [the] information write-specified by a user in [an] a MIB data write process.

40. (Amended) A network device control [unit] apparatus comprising:

[means] a memory unit arranged to store MIB data obtained from [an] a MIB data write process into [an] a MIB data cache; and

[means] a comparison circuit arranged to compare data stored in the MIB data cache in said [means] memory unit with MIB data matching [the] information write-specified by a user in [an] a MIB data write process.

41. (Amended) A network device control [unit]
apparatus comprising:

[means] a first memory unit arranged to store MIB
data obtained from [an] a MIB data read-out-process into [an] a
MIB data cache; [and]

[means] a second memory unit arranged to store MIB
data written in [an] a MIB write process into [an] a MIB data
cache; and

[means] a comparison circuit arranged to compare data
stored in the MIB data cache by either of said [means,] said
first and second memory units with MIB data matching information
write-specified by [the] a user in [an] a MIB data write process.

42. (Amended) A [network device control method
utilizing SNMP protocol comprising: a recording medium capable of
being scanned or read by a computer in which] computer-readable
storage medium storing a program [is stored to discriminate] for
implementing a network device control method, the program
comprising:

program code for a discrimination step of
discriminating between MIB data requiring a write request and MIB
data not requiring a write request for [the] a SNMP agent of a
network device, the discrimination being from among [the] MIB
data matching [the] information that was write-specified by a

user.

43. (Amended) A [recording medium capable of being read by a computer in which programs are stored, said programs including] computer-readable storage medium storing a program for implementing a network device control method, the program comprising:

program code for a storage step of storing MIB data obtained from [an] a MIB data read-out process into [an] a MIB data cache; and

program code for a comparison step of comparing data stored in the MIB data cache in [said] the storage step with MIB data matching information write-specified by a user in [an] MIB data write process.

44. (Amended) A [recording medium capable of being read by a computer in which programs are stored, said programs including] computer-readable storage medium storing a program for implementing a network device control method, the program comprising:

program code for a storage step of storing MIB data obtained from [an] a MIB data write process into [an] a MIB data cache; and

program code for a comparison step of comparing data

stored in the MIB data cache in [said] the storage step with MIB data matching information write-specified by a user in [an] a MIB data write process.

45. (Amended) A [recording medium capable of being read by a computer in which programs are stored, said programs including] computer-readable storage medium storing a program for implementing a network device control method, the program comprising:

program code for a first storage step of storing MIB data obtained from [an] a MIB data read-out process into [an] a MIB data cache;

program code for a second storage step of storing MIB data written in [an] a MIB write process into [an] a MIB data cache; and

program code for a comparison step of comparing data stored in the MIB data cache in either of [said] the first and second storage steps[,] with MIB data matching information write-specified by a user in [an] a MIB data write process.

46. (Amended) A network device control [unit] apparatus for controlling a device connected [onto] to a network utilizing a SNMP protocol, said apparatus comprising:

[holding means] a storage unit arranged to hold [the]

a latest MIB data when MIB data for [said] the device is read or when [this] the MIB data is written for [said] the device[,] by storing [said] the MIB data into [the] a specified cache memory;
a comparison [means] circuit arranged to compare the latest MIB data for [said] the device held by said [holding means] storage unit when writing of new MIB data [was] is specified for [said] the device and excluding cases where writing of [said] the MIB data already has sufficient significance; and
a control [means] circuit arranged to update said [holding means] storage unit and [also] to write [the] applicable MIB data into [said] the device[,] only when results from [the above] said comparison [means] circuit show a difference between the newly written MIB data and the held MIB data.

47. (Amended) A network device control [unit] apparatus according to claim 46, wherein [said] the cache memory is jointly shared by [the entire] devices connected to the network.

48. (Amended) A network device control method according to claim 22, wherein [said initial sheet] the information acquisition step [comprising] comprises:
a sheet information compulsory acquisition decision step of deciding whether or not to compulsorily acquire sheet

information;

an instant display step [to display] of displaying a portion of the information beforehand based on [the] a currently held sheet information, when it is decided not to perform compulsory acquisition in [said] the sheet information compulsory acquisition decision step;

a display all sheet information step [to decide] of deciding whether or not all sheet information was displayed when it is decided to perform compulsory acquisition in [said] the sheet information compulsory acquisition decision step;

a network device information acquisition step of acquiring network device information;

a network device holding decision step [to decide] of deciding whether or not previously acquired network device information (hereafter called "cache") is being held;

a cache comparison step [to compare the] of comparing a cache value with [the] a network device information value newly acquired [by way of said] in the network device acquisition step when [determined] it is decided to hold information in cache [by said] in the network device holding decision step;

a cache value hold step [to hold] of holding the acquired network device information as a cache value when results of the comparison of the cache value with the newly acquired network device information value are determined to differ, and

also when it is decided that a cache is not being held [by way of said] in the network device holding decision step;

a network device information display step [to display] of displaying on [said] the device window[, said] the cache value held in [said] the cache value hold step;

a sheet list status change step [to change the] of changing a status of currently displayed information on the sheet list to a display-completed status in order to decide whether to display all network device information in [said] the display all sheet information step;

an update decision step [to decide] of deciding whether or not to update [the] a display of information on [said] the device window when it is decided that all network device information was displayed in the display all sheet information step;

a timer update set step [to set] of setting an automatic update timer when [determined] it is decided to perform updates in the update decision step;

a timer update monitor step [to determine] of determining whether or not [the] time is up[,] on the automatic update timer set in [said] the timer update set step; and

an update stop monitor step [to monitor if] of monitoring whether updating has stopped or not when the time has not run out on the automatic update timer monitored in the timer

update monitor step.

49. (Amended) A network device control [unit] apparatus according to claim 23, wherein [said] the information acquisition [means comprising] unit comprises:

a sheet information compulsory acquisition decision [means] unit for deciding whether or not to compulsorily acquire sheet information;

an instant display [means to display] unit for displaying a portion of the information beforehand based on [the] a currently held sheet information, when it is decided not to perform compulsory acquisition [in said] using the sheet information compulsory acquisition decision [means] unit;

a display all sheet information [means to decide] unit for deciding whether or not all sheet information was displayed when it is decided to perform compulsory acquisition [in said] using the sheet information compulsory acquisition decision [means] unit;

a network device information acquisition [means] unit for acquiring network device information;

a network device holding decision [means to decide] unit for deciding whether or not previously acquired network device information (hereafter called "cache") is being held;

a cache comparison [means to compare the] unit for

comparing a cache value with [the] a network device information value newly acquired [byway of said] using the network device acquisition [means] unit when [determined] it is decided to hold information in cache [by said] using the network device holding decision [means] unit;

a cache value hold [means to hold] unit for holding the [acquire] acquired network device value as a cache value when results of the comparison of the cache value with the newly acquired network device information value are determined to differ, and also when it is decided a cache is not being held [by way of said] using the network device holding decision [means] unit;

a network device information display [means to display] unit for displaying on [said] the device window [, said] the cache value held [in said] using the cache value hold [means] unit;

a sheet list status change [means to change the] unit for changing a status of currently displayed information on the sheet list to a display-completed status in order to decide whether to display all network device information [in said] using the display all sheet information [means] unit;

an update decision [means to decide] unit for deciding whether or not to update [the] a display of information on [said] the device window when it is decided that all network

device information was displayed [in] using the display all sheet information [means] unit;

a timer update set [means to set] unit for setting an automatic update timer when [determined] it is decided to perform automatic updates [in] using the update decision [means] unit;

a timer update monitor [means to determine] unit for determining whether or not [the] time is up[,] on the automatic update timer set [in said] using the timer update set [means] unit; and

an update stop monitor [means to monitor if] unit for monitoring whether updating has stopped or not when the time has not run out on the automatic update timer monitored [in the] using the timer update monitor [means] unit.

50. (Amended) A recording medium according to claim 24, wherein [said initial sheet] the information acquisition step [comprising] comprises:

a sheet information compulsory acquisition decision step of deciding whether or not to compulsorily acquire sheet information;

an instant display step [to display] of displaying a portion of the information beforehand based on [the] a currently held sheet information, when it is decided not to perform compulsory acquisition in [said] the sheet information compulsory

acquisition decision step;

a display all sheet information step [to decide] of deciding whether or not all sheet information was displayed when it is decided to perform compulsory acquisition in [said] the sheet information compulsory acquisition decision step;

a network device information acquisition step of acquiring network device information;

a network device holding decision step [to decide] of deciding whether or not previously acquired network device information (hereafter called "cache") is being held;

a cache comparison step [to compare the] of comparing a cache value with [the] a network device information value newly acquired [by way of said] in the network device acquisition step when [determined] it is decided to hold information in cache [by said] in the network device holding decision step;

a cache value hold step [to hold] of holding the [acquire] acquired network device value as a cache value when results of the comparison of the cache value with the newly acquired network device information value are determined to differ, and also when it is decided that a cache is not being held [by way of said] in the network device holding decision step;

a network device information display step [to display] of displaying on [said] the device window[, said] the

cache value held in [said] the cache value hold step;

a sheet list status change step [to change the] of changing a status of currently displayed information on the sheet list to a display-completed status in order to decide whether to display all network device information in [said] the display all sheet information step;

an update decision step [to decide] of deciding whether or not to update [the] a display of information on [said] the device window when it is decided that all network device information was displayed in the display all sheet information step;

a timer update set step [to set] of setting an automatic update timer when [determined] it is decided to perform updates in the automatic update decision step;

a timer update monitor step [to determine] of determining whether or not [the] time is up[,] on the automatic update timer set in [said] the timer update set step; and

an update stop monitor step [to monitor if] of monitoring whether updating has stopped or not when the time has not run out on the automatic update timer monitored in the timer update monitor step.

51. (Amended) A network device control method according to claim 48, wherein [said] the instant display step

[comprising] comprises:

a sheet information list decision step of deciding whether [the three steps] each of a cache value enable decision step, a network device information display step, and a sheet information list status change step were implemented on [the] a currently held sheet information list;

a cache value enable decision step [to decide] of deciding whether information in [said] the sheet information list was previously acquired, when it is determined [by utilizing] in the sheet information list decision step[,], that [said] the cache value enable decision step [and the two steps of], the network device information display step, and the sheet information list status change step were not implemented for the entire sheet information list;

a network device information display step [to display] of displaying a cache value of certain information on [said] the device window when it is determined that the information was previously acquired [by way of said] in the cache value enable decision step; and

a sheet list status change step [to change the] of changing a status of currently displayed information on the sheet list to a display-completed status.

52. (Amended) A network device control [unit]

apparatus according to claim 49, wherein [said] the instant display [means comprising] unit comprises:

a sheet information list decision [means] unit for deciding whether [the three means] each of a cache value enable decision [means] unit, a network device information display [means] unit, and a sheet information list status change [means] unit were implemented on the currently held sheet information list;

a cache value enable decision [means to decide] unit for deciding whether information in [said] the sheet information list was previously acquired, when it is determined [by utilizing] using the sheet information list decision [means,] unit that [said] the cache value enable decision [means and the two means of] unit, the network device information display [means] unit, and the sheet information list status change [means] unit were not implemented for the entire sheet information list;

a network device information display [means to display] unit for displaying a cache value of certain information on [said] the device window when it is determined that the information was previously acquired [by way of said] using the cache value enable decision [means] unit; and

a sheet list status change [means to change the] unit for changing a status of currently displayed information on the

sheet list to a ~~display-completed~~ status.

53. (Amended) A recording medium according to claim 50, wherein [said] the instant display step [comprising] comprises:

a sheet information list decision step of deciding whether [the three steps] each of a cache value enable decision step, a network device information display step, and a sheet information list status change step were implemented on [the] a currently held sheet information list;

a cache value enable/decision step [to decide] of deciding whether information in [said] the sheet information list was previously acquired, when it is determined [by utilizing] in the sheet information list decision step[,], that [said] the cache value enable decision step [and the two steps of], the network device information display step, and the sheet information list status change step were not implemented for the entire sheet information list;

a network device information display step [to display] of displaying a cache value of certain information on [said] the device window when it is determined that the information was previously acquired [by way of said] using the cache value enable decision step; and

a sheet list status change step [to change the] of

changing a status of currently displayed information on the sheet list to a display-completed status.

54. (Amended) A network device control method according to claim 22, wherein [said] the information acquisition step [comprising] comprises:

a display all sheet information decision step [to decide] of deciding whether or not to all sheet information was displayed;

a network device information hold decision step [to decide] of deciding whether [the] a cache is being held when it is determined in [said] the display all sheet information decision step that not all of the information was displayed;

a sheet information compulsory acquisition decision step of deciding whether or not to compulsorily acquire sheet information;

a network device information acquisition step [to acquire] of acquiring information on the network device when it is determined in [said] the sheet information compulsory acquisition decision step to compulsorily acquire sheet information;

a cache comparison step [to compare the] of comparing a cache value with [the] a device information value newly acquired [by said] in the network device information acquisition

step;

a cache value hold step [to hold] of holding the acquired network device information as a cache value when results of the comparison of the cache value with the newly acquired device information value are determined to differ, and also when it is determined [by way of said] in the network device holding decision step[,] that [the] previously acquired network device information is not being held;

a network device information display step of displaying on [said] the network device window[,] the cache value held [by means of said] in the cache value hold step;

a sheet list status change step [to change the] of changing a status of currently displayed information on the sheet list to a display-completed status in order to decide whether to display all network device information in [said] the display all sheet information step;

an update decision step [to decide] of deciding whether or not to update [the] a display of information on [said] the device window when [a] it is determined that all network device information was displayed in [said] the display all sheet information step;

a timer update set step [to set] of setting an automatic update timer when [determined] it is decided to perform updates in [said] the update decision step;

a timer update monitor step [to determine] of
determining whether or not [the] time is up[,] on the automatic
update timer set in [said] the timer update set step; and

an update stop monitor step [to monitor if] of
monitoring whether updating has stopped or not when the time has
not run out on the automatic update timer monitored in the timer
update monitor step.

55. (Amended) A network device control [unit]
apparatus according to claim 23, wherein [said] the information
acquisition [means comprising] unit comprises:

a display all sheet information decision [means to
decide] unit for deciding whether or not to all sheet information
was displayed;

a network device information hold decision [means to
decide] unit for deciding whether [the] a cache is being held
when it is determined [in said] using the display all sheet
information decision [means] unit that not all of the information
was displayed;

a sheet information compulsory acquisition decision
[means] unit for deciding whether or not to compulsorily acquire
sheet information;

a network device information acquisition [means to
acquire] unit for acquiring information on the network device

when it is determined [in said] using the sheet information compulsory acquisition decision [means] unit to compulsorily acquire sheet information;

a cache comparison [means to compare the] unit for comparing a cache value with [the] a device information value newly acquired [by said] using the network device information acquisition [means] unit;

a cache value hold [means to hold] unit for holding the acquired network device information as a cache value when results of the comparison of the cache value with the newly acquired device information value are determined to differ, and also when it is determined [by way of said] using the network device holding decision [means,] unit that [the] previously acquired network device information is not being held;

a network device information display [means] unit for displaying on [said] the network device window[,] the cache value held [by means of said] using the cache value hold [means] unit;

a sheet list status change [means to change the] unit for changing a status of currently displayed information on the sheet list to a display-completed status in order to decide whether to display all network device information [in said] using the display all sheet information [means] unit;

an update decision [means to decide] unit for deciding whether or not to update [the] a display of information

on [said] the device window when it is determined that all network device information was displayed [in said] using the display all sheet information [means] unit;

a timer update set [means to set] unit for setting an automatic update timer when [determined] it is decided to perform updates [in said] using the update decision [means] unit;

a timer update monitor [means to determine] unit for determining whether or not [the] time is up[,] on the automatic update timer set [in said] using the timer update set [means] unit; and

an update stop monitor [means to monitor if] unit of monitoring whether updating has stopped or not when the time has not run out on the automatic update timer monitored [in] using the timer update monitor [means] unit.

56. (Amended) A recording medium according to claim 24, wherein [said] the information acquisition step [comprising] comprises:

a display all sheet information decision step [to decide] of deciding whether or not to all sheet information was displayed;

a network device information hold decision step [to decide] of deciding whether [the] a cache is being held when it is determined in [said] the display all sheet information

decision step that not all of the information was displayed;

a sheet information compulsory acquisition decision step of deciding whether or not to compulsorily acquire sheet information;

a network device information acquisition step [to acquire] of acquiring information on the network device when it is determined in [said] the sheet information compulsory acquisition decision step to compulsorily acquire sheet information;

a cache comparison step [to compare the] of comparing a cache value with [the] a device information value newly acquired [by said] in the network device information acquisition step;

a cache value hold step [to hold] of holding the acquired network device information as a cache value when results of the comparison of the cache value with the newly acquired device information value are determined to differ, and also when it is determined [by way of said] in the network device holding decision step[,] that the previously acquired network device information is not being held;

a network device information display step of displaying on [said] the network device window[,] the cache value held [by means of said] in the cache value hold step;

a sheet list status change step [to change the] of

changing a status of currently displayed information on the sheet list to a display-completed status in order to decide whether to display all network device information in [said] the display all sheet information step;

an update decision step [to decide] of deciding whether or not to update [the] a display of information on [said] the device window when it is determined that all network device information was displayed in [said] the display all sheet information step;

A
a timer update set step [to set] of setting an automatic update timer when it is decided to perform updates in [said] the update decision step;

a timer update monitor step [to determine] of determining whether or not [the] time is up[,] on the automatic update timer set in [said] the timer update set step; and

an update stop monitor step [to monitor if] of monitoring whether updating has stopped or not when the time has not run out on the automatic update timer monitored in the timer update monitor step.

Please add Claims 57-59 as follows:

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--57. A method of managing a plurality of network devices, acquiring information of a selected network device of

the plurality of network devices, and displaying the acquired information, said method comprising:

a first display step of acquiring a first information of a selected network device and of displaying the first information on a device window; and

a second display step of acquiring a second information of the selected network device from the selected network device and of displaying the second information on the device window when a user has requested display of the second information.

A2 *Sub* *C3* 58. A network device control apparatus for managing a plurality of network devices, acquiring information of a selected network device of the plurality of network devices, and displaying the acquired information, said apparatus comprising:

a first display unit for acquiring a first information of a selected network device and displaying the first information on a device window; and

a second display unit for acquiring a second information of the selected network device from the selected network device and displaying the second information on the device window when a user has requested display of the second information.